

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018184

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N9/24, C12N15/09, C12N1/21, C12P21/02, C07K1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N9/24, C12N15/09, C12N1/21, C12P21/02, C07K1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA/MEDLINE/BIOSIS/WPIDS (STN), JSTPlus (STN)

Genbank/EMBL/DDBJ/GeneSeq, SwissProt/PIR/GeneSeq

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 94/07998 A (NOVO-NORDISK AS), 14 April, 1994 (14.04.94), & EP 663950 A & US 5792641 A & US 6114296 A & JP 08-501692 A	<u>7-16</u> 1-6
Y	WO 98/03667 A (Meiji Seika Kaisha, Ltd.), 29 January, 1998 (29.01.98), & JP 10-506808 A & EP 953644 A1 & US 6403362 B1	1-16
Y	WO 98/11239 A (Meiji Seika Kaisha, Ltd.), 19 March, 1998 (19.03.98), & EP 952223 A & JP 10-513027 A & US 6277596 B1	1-16

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- "&" document member of the same patent family

Date of the actual completion of the international search
28 February, 2005 (28.02.05)Date of mailing of the international search report
15 March, 2005 (15.03.05)Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 91/17243 A (NOVO-NORDISK AS), 14 November, 1991 (14.11.91), & EP 531372 A & JP 05-509223 A & US 5948672 A & JP 2000-217583 A & US 2001/36910 A & JP 2001-57894 A & JP 2003-70489 A & US 2003/119167 A	1-16
Y	WO 97/43409 A (NOVO-NORDISK AS), 20 November, 1997 (20.11.97), & EP 898618 A & US 6270968 B1	1-16
Y	Maeda I. et al., Purification and characterization of a cellulase from the giant snail Achatina fulica., Biosci.Biotechnol.Biochem., (1996), Vol.60, No.1, pages 122 to 124	1-16
Y	Elizabeth J. Waters et al., Sequence analysis of grape(Vitis vinifera) berry chitinases that cause haze formation in wines., J.Agric.Food Chem., (1998), Vol.46, pages 4950 to 4957	1-16
Y	Klarskov K. et al., Cellobiohydrolase I from Trichoderma reesei: indentification of an active-site nucleophile and additional information on sequence including the glycosylation pattern of the core protein., Carbohydr Res. (1997), Vol.304, No.2, pages 143 to 154	1-16
A	F.P.M.O'Harte et al., Improved stability, insulin-releasing activity and antidiabetic potential of two novel N-terminal analogues of gastric inhibitory polypeptide:N-acetyl-GIP and pGlu-GIP., Diabetologia(2002), Vol.45, pages 1281 to 1291	1-16
A	Odagaki Y. et al., The crystal structure of pyroglutamyl peptidase I from Bacillus amyloliquefaciens reveals a new structure for a cysteine protease., Structure Fold Des. (1999), Vol.7, No.4, pages 399 to 411	1-16